

THE BULLETIN

JULY 24, 1995 ~ 49TH YEAR ~ NUMBER 1

Universities Take One Percent Budget Hit

BY KARINA DAHLIN

ONTARIO'S UNIVERSITIES will lose one percent of their operating budget in 1995-96, or \$16.8 million, according to the economic statement released July 21 by Finance Minister Ernie Eves.

This represents a reduction that universities, with professional management, should be able to accommodate "without affecting the delivery systems," said John Snobelen, minister of education and training, in an interview shortly after the statement was released.

For U of T the cut means a loss of approximately \$3.5 million. President Robert Prichard described this as a serious setback. "I very much regret any reduction in the province's support for post-secondary education," he said. "Our universities are critical to the long-term prosperity of Ontario. Any undermining of them will prolong, not solve, Ontario's crisis."

The administration will review the University's budget strategy over the next few weeks. If any changes are needed they will be announced no later than the first week of September, Prichard said. However,

the effects on the University's multi-year budget will not be known until issues such as partial tuition fee deregulation and long-term grant support are clear. Prichard said he looks forward to discussing these matters with the government. "We are prepared to be more self-sufficient as an institution, but we must be given the tools and space to do the job," he said. "Done right, both the province and the University will thrive."

In addition to the one percent operating cut, universities will be affected by the cancellation of a \$29 million high-performance computing centre.

"It's very unfortunate that these plans should have been sidelined so rapidly following the election," said University Professor Richard Peltier of the Department of Physics and a member of the board of High Performance Computing Ontario, "particularly because they were developed with the support of so many previous governments, all of which saw the plans as being very important for the province's economic future. We will now have to do what we've done in the past, beg for computing elsewhere. By not having it immediately available in our own province,

researchers will continue to be severely disadvantaged."

Snobelen indicated that the government will consider new funding proposals for high-performance computing in the province, a hopeful sign for U of T researchers involved in

areas as diverse as astrophysics, environmental modelling and computational chemistry.

Professor Heather Munroe-Bloom, vice-president (research and international relations), said High Performance Computing Ontario is

an excellent example of the innovative, multi-sectoral partnerships that can help the province achieve its medium and long-term economic goals. "In light of the last federal

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ROWS TO HOE



Corn, tomatoes, beans and other edibles have sprouted with abandon and lots of loving care at the back of 215 Huron St. This is the first year U of T has had a community garden and if it proves successful, there may be others. Ian Digby, a part-time student at Woodsworth College, Michelle Woodvine, a botany student, and Marie-Christine Kean, a secretary in the Office of Environmental Health & Safety, along with 12 others booted, tilled and planted their crops in the spring and are reaping the benefits now. Facilities and services provided the space, signs and water barrels.

Former Premier Joins U of T

FORMER ONTARIO PREMIER Bob Rae has joined the teaching staff at U of T.

Rae, whose New Democratic

Party placed third in the June 8 election, will serve as an adjunct professor and teach students in political science, law, management and industrial relations. His office will be at Massey College. In the fall term he is scheduled to teach an undergraduate course in political theory entitled Thinking about Politics. In the spring he will teach an advanced seminar on labour law and industrial relations. He will also be available as a resource to students and faculty and will continue to lead his party.

A graduate of U of T, Rae received a BA in 1969 and an LLB from the Faculty of Law in 1977. He also attended the University of Oxford as a Rhodes scholar in 1970-71.

President Robert Prichard described Rae as one of the University's most accomplished graduates. "He will be a splendid and inspiring teacher able to draw on a strong academic background and a distinguished political leadership," Prichard said. "I am confident his students will enjoy a superb learning experience."

In a prepared statement Rae said he is looking forward to returning to the classroom and engaging students in discussion on contemporary issues.

Daniels, Fullan Appointed Deans

THE FACULTY OF LAW AND THE Ontario Institute for Studies in Education at the University of Toronto have new deans. Professor Ronald Daniels has been named dean of law for a six-year term effective Sept. 1. Professor Michael Fullan will head OISE/UT for a seven-year term as of July 1, 1996.

Daniels, a well-known scholar in corporate law, the legal profession and law and economics, received his BA and LLB degrees from U of T and his masters of law from Yale. He has been a member of the faculty since 1988 and currently serves as director of the joint LLB/MBA program, as co-director of the law and economics workshop series and as member of the editorial board of the *Canadian Business Law Journal*.

He is also a member of the executive committee of the Faculty of Law Fund and co-leader of a major research project on corporate decision making in Canada for Industry Canada. He served as co-founder and co-director of the Public Interest Advocacy Program (1990-92), director of the International Business & Trade Law Program of the

Ontario Centre for International Business (1988-93) and chair of the provincial government's Task Force on Securities Regulation (1994).

President Robert Prichard called Daniels an exceptional scholar with extensive involvement in all areas of the faculty. "Under his guidance, U of T's Faculty of Law will continue to build on a tradition of international excellence in the study of law."

Fullan will serve as the first dean of OISE/UT, the new faculty of education formed by the merger of the Ontario Institute for Studies in Education and U of T's Faculty of Education. His appointment was approved by U of T and OISE's governing board. The new faculty will be dedicated to national and international distinction in graduate studies, research and field development in education and pre-service and in-service teacher education.

Fullan, dean of the education faculty since 1988, serves as policy implementation adviser to the minister of education and training (Ontario) on the Report of the Royal Commission on Learning. He has published widely in the areas of

teacher development, educational change and the management of change and is the recipient of the Ontario Association of Curriculum Development Colonel Watson Award (1993) and the Canadian Association of Teacher Educators Award of Excellence (1990).

He serves on the editorial board of numerous educational journals including the *American Journal of Education*, the *Canadian Journal of Education* and *School Effectiveness and School Improvement*. He is on the board of advisers for the Council of the Hong Kong Institute of Education Research of the Chinese University of Hong Kong, the Toronto Learning Partnership and is a founding member of the Learning Consortium. Fullan holds a BA, master's in sociology and PhD from U of T. He joined OISE in 1968 and was assistant director in 1981-87.

"Michael Fullan is a magnificent educator and leader," said Prichard. "Under his direction, I am confident the new OISE/UT will be able to fulfill its unique mission as one of the finest academic centres in the world dedicated to the discipline of education."

INSIDE



Show of strength

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African lion

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Toil and peace

THE DOUKHOBOVS' WAY TO global harmony. Events. Page 9

AWARDS & HONOURS

Faculty of Arts & Science

PROFESSOR EMERITUS RUFUS CHURCHER of the Department of Zoology has been honoured by 53 international scholars who wished to recognize his distinguished career in palaeontology. *Palaeoecology and Palaeoenvironments of Late Cenozoic Mammals*, a tribute to Churcher, was recently published by University of Toronto Press.

PROFESSOR DENNIS DUFTY of the DEPARTMENT OF ENGLISH will be the first Craig Dobbin Visiting Professor of Canadian Studies at University College, Dublin, from September 1995 to June 1996.

PROFESSOR R.E. KAPRAL of the DEPARTMENT OF Chemistry has been selected as the 1996 winner of the John C. Polanyi Lecture Award. The award recognizes excellence in research in physical and theoretical chemistry or chemical physics.

PROFESSOR RONALD KLUGER of the DEPARTMENT OF Chemistry has been selected as the 1996 winner of the Alfred Bader Award of the Canadian Society of Chemistry. The award recognizes excellence in research in organic chemistry.

PROFESSOR MARTIN MOSKOVITS of the DEPARTMENT OF Chemistry has been awarded one of three Joannes Marcus Marci medals by the Czechoslovak Spectroscopic Society. The award is in recognition of his work in explaining the Surface Enhanced Raman effect.

Faculty of Medicine

PROFESSOR STEPHEN CUNNANE of the DEPARTMENT OF Nutritional Sciences is the 1995 recipient of the Award for Outstanding Nutrition Research, sponsored by the Canadian Society for Nutritional Sciences in recognition of significant contributions made during the previous five years by a researcher under the age of 45.



PROFESSOR JOHN FLORAS of the DEPARTMENT OF Medicine has been selected as the recipient of the 1995 William Goldie Prize & Travel Award. The prize is awarded by the Department of Medicine to a member who is within 10 years of initial appointment and who has made a contribution of notable merit to the advancement of knowledge in internal medicine.

PROFESSOR DEREK HARWOOD-NASH of the DEPARTMENT OF Medical Imaging has been awarded the Gold Medal of the Society for Pediatric Radiology for his excellent service to pediatric radiology and to radiology as a whole. In addition, the American Society of Neuroradiology has established the Harwood-Nash award in perpetuity for the best presentation in pediatric neuroradiology at its annual science meeting. This award is in recognition of his pioneering work in paediatric neuroradiology.

PROFESSOR MORRIS MILNER of the INSTITUTE OF Biomedical Engineering and vice-president (research and development) of the Hugh MacMillan Rehabilitation Centre has been presented with the Jonas Salk Award for research in the service of mankind by the Ontario March of Dimes. It recognizes his outstanding scientific contributions to the alleviation of disability.

PROFESSOR HYMAN NIZNIK of the DEPARTMENTS OF Psychiatry and Pharmacology and the Clarke Institute of

Psychiatry has been awarded the Ontario Mental Health Foundation's 1995 John Dewan Award. The annual award is granted for original and unique laboratory or clinical research that has significant bearing on mental health. Niznik received the award in recognition of his substantial and sustained contributions to the field of neurobiology.

PROFESSOR PHILIP SEEMAN of the DEPARTMENT OF Pharmacology was named a co-recipient of the Robert J. & Claire Pasarrow Foundations' Neuropsychiatry Award. Seeman is the discoverer of antipsychotic/dopamine receptors, the main target for therapy of psychosis. This discovery provided a neurochemical basis for schizophrenia and offered possibility for diagnosis and provided cloned targets for developing new antipsychotic drugs.

MICHAEL TYMIANSKI has been given the BERNARD LANGER Surgeon-Scientist Award, presented to a graduate of the surgeon-scientist program in the Department of Surgery who shows the greatest promise for a career in medicine.

PROFESSOR MLADEN VRANIC of the DEPARTMENT OF Physiology has been selected the 1995 Harvey & Judy Poll Visiting Scholar at the University of Washington. Vranic is noted for his research on the physiology of carbohydrate metabolism and the abnormalities that occur in diabetes mellitus.

University of Toronto

TWO UNIVERSITY OF TORONTO BUILDINGS were HONoured with 1995 City of Toronto Urban Design Awards: the Earth Sciences Centre at 33 Willcocks St. and Woodsworth College at 117 St. George St. The City of Toronto Urban Design Awards acknowledge and promote the important contribution the development industry, architects and designers have made to the city.

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IN BRIEF



Kenney-Wallace joins management faculty

PROFESSOR GERALDINE KENNEY-WALLACE, FORMER PRESIDENT and vice-chancellor of McMaster University, will return to U of T this fall following her 5-year appointment at the Hamilton, Ont. university. Kenney-Wallace, previously with U of T's Departments of Chemistry and Physics, has been appointed a senior fellow in the Faculty of Management in 1995-96. She will continue as a fellow at Massey College. At management Kenney-Wallace will be involved in research on topics such as management of new technologies and trade in an international context. She is an internationally recognized authority on lasers, non-linear optics and molecular-chemical dynamics. President Robert Prichard called Kenney-Wallace a remarkable ambassador for the University, both nationally and internationally. "As her work now turns increasingly to the intersection of science, innovation and international trade, I am confident she will make important contributions to the field and be a valuable resource to colleagues and students."

Massey appoints campaign chair

JAMIE ANDERSON HAS BEEN APPOINTED CHAIR OF MASSEY COLLEGE'S capital campaign, succeeding John Fraser who became master of the college July 1. Anderson is vice-president and director of RBC Dominion Securities Inc. and served as vice-chair of the campaign since its inception last fall. The \$6 million campaign will be officially launched in October. However, the college has already raised more than \$2 million, including a \$500,000 gift from businessman and author Christopher Ondaatje, who is an associate fellow of the college and a strong supporter of its aim to provide interdisciplinary, community living for graduate students and senior scholars. Part of his gift will be used for bursaries to junior fellows and named for Ann Saddlemeyer, who recently retired as master of the college.

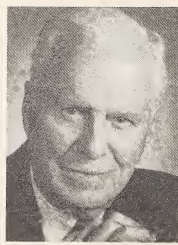
IN MEMORIAM

Finch Was Talented Writer, Musician

ROBERT DUER CLAYDON FINCH, Professor emeritus of French at University College, died June 11 after a short illness. He was 95.

Born in Freeport, Long Island, New York, he taught at Ridley College in St. Catharines for two years before receiving his undergraduate degree from U of T in 1925. After pursuing graduate studies in Paris he was appointed to the faculty at UC where he remained until retirement in 1970. He was also a senior fellow at Massey College from its foundation in 1963.

An accomplished writer, musician and artist, Finch published some 15 volumes of verse, earning him a Governor-General's award



twice (in 1946 and 1961) as well as the Lorne Pierce Gold Medal Award of the Royal Society of Canada in 1965. His paintings,

mainly gouaches and drawings, can be found in private and public collections, including the National Gallery of Canada. His last showing was February 1995.

Finch, a gifted and sensitive teacher, had a facility for developing friendships around the world that lasted his lifetime, many of them with former students. "He was extremely interested in people and had quite an effect on them," said longtime friend and colleague Professor Emeritus John Flinn of French. "He would get up at 6 a.m. every morning and spend the first hour or two writing letters."

Details for a memorial service have yet to be released.

Upcoming Bulletin Issues

THE PUBLICATION DATES FOR the next two issues of *The Bulletin* are Aug. 21 and Sept. 5. The deadline for receipt of events and booking of display ads for the August issue is Aug. 8; for the Sept. 5 issue the deadline is Aug. 21. For the August issue, editorial material and classified ads should be in *The Bulletin* offices at 21 King's College Circle, second floor, by Aug. 11; for the Sept. 5 issue, by Aug. 25.

Subsequent issues will appear on the following dates: Sept. 18, Oct. 2, Oct. 23, Nov. 6, Nov. 20 and Dec. 11.

UNIVERSITY OF TORONTO

THE BULLETIN

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The Bulletin is printed on recycled paper. Material may be reprinted in whole or in part with appropriate credit to *The Bulletin*.

Published every two weeks by the Department of Public Affairs, 21 King's College Circle, 2nd floor, University of Toronto, Toronto, M5S 1A1.

EDITORIAL ENQUIRIES: 978-6981 • DISTRIBUTION ENQUIRIES: 978-2106 • ADVERTISING ENQUIRIES: 978-2106 • Display advertising space must be reserved two weeks before publication date. FAX: 978-7430.

If the Nose Fits, Wear It



Barbara McCann, registrar in the Faculty of Applied Science & Engineering, gets a nose job from her sons Timothy Shab, 7, and Trevor, 4, at Summer Science in the City July 16 at U of T. The event, organized by Science Outreach, featured a variety of games such as building submarines from pop bottles and gliders for troll dolls. The Pinocchio nose, built as far out as possible without touching the ground, taught the children about structures and shapes. Science Outreach is a program designed to introduce schoolchildren to science.

Students Move Out of Devonshire

DEVONSHIRE NORTH HOUSE men's residence will be closed and used to temporarily house the Canadian Institute for International Affairs.

"We have decided that there is no need to keep North House open as a residence," said David Neelds, assistant vice-president (student affairs), in an interview. "It will mean a considerable savings to close down the

operation." About 20 students who will be returning in the fall can be easily accommodated in East or South Devonshire House, he said.

The institute's 20 staff members, currently located at UC, will move in late August. Over the next month Devonshire House will undergo some modest changes to accommodate the institute on the first floor while the

second and third floors will be used for other academic purposes.

The long-range plan is to close the Devonshire complex, located at Devonshire Place and Hoskin Ave., by 2001 and convert it to a new centre for international affairs. U of T has received a provincial planning grant to develop a detailed proposal for the centre.

Classical Disc Hits High Note

BY ALIDA MINCHELLA

FROM COMPOSITIONS BY FACULTY of Music professors and the composer of *O Canada* to the painting on the cover, the U of T Wind Symphony's new compact disc is distinctly Canadian. Even the title track, *Dreaming on the 2238*, conjures up images of trains crossing the broad expanse of this country.

Recorded last fall and spring in the MacMillan Theatre of the Edward Johnson Building and Timothy Eaton Memorial Church, it is the first CD to be recorded by the faculty's students in 15 years. The symphony uses between 20 and 70 woodwind, brass and percussion players — most of them first- and second-year students — depending on the needs of the arrangement. One piece, *Fanfare of Pride and Joy* composed by the late Tibor Polgar of the opera department, is scored for 18 trumpets. "We chose pieces that we thought would be musically interesting for the CD and composers that mean something to the Canadian scene," said Professor Cameron Walter, who conducted the symphony with Professor Stephen Chenette.

The selections cover the gamut of Canadian music from Professor Emeritus John Weinzweig's *Out of the Blues* — six movements that capture the moods of the blues — to Howard Cable's *Quebec Folk Fantasy*, Québécois folk songs set

for winds. Two of the pieces, one by Professor Phil Nimmons of the Faculty of Music and one by Donald Cockley who conducts the wind ensemble at York University, premiered at Expo 86. Cockley's *Vive La Canadienne: A Festive Piece* presents a familiar folk song in a series of rhythmic variations. Nimmons' composition, *Skyscape: Sleeping Beauty and the Lions*, weaves jazz and classical influences to draw a musical portrait of the city of Vancouver.

Most of the students had already performed the pieces for a concert series; the recording sessions added to their training, Walter said. For students who choose to become professional musicians, recording sessions are a way of life. "We felt that they should be doing this, that this is a valuable experience," he said.

The compact disc, recorded with CBC technicians, will be distributed by the Canadian Music Centre, a federal government agency whose mandate is to raise the profile of Canadian music.

Walter is certain that the recording will get quite a bit of play on classical music radio stations. "It will get a lot of exposure," he said. "I'm thrilled with how good the ensemble sounds. It sounds totally professional."

The recording will be available at the faculty, the U of T Bookstore and other music stores within the next few weeks.

GENES IN THE NEWS

USA Today loses early review privileges after breaking news embargo

BY KARINA DAHLIN

THE FIELD OF GENETICS IS DEVELOPING BY leaps and bounds and regularly makes the headlines. One of the more striking pieces of news ran last month when the world learned that a group of scientists had found a gene whose carriers will inevitably develop early-onset Alzheimer's disease.

The group includes 33 scientists from 14 institutions in Canada, the US, Britain, Italy and France and is headed by Professor Peter St. George-Hyslop of the Department of Medicine and director of the Centre for Research in Neurodegenerative Diseases. Other key players at U of T are Professors Johanna Rommens of the Department of Molecular & Medical Genetics and the Hospital for Sick Children Research Institute and Paul Fraser, also of the CRND.

Alzheimer's normally strikes people after age 65 and is probably caused by a mixture of genetic predisposition and environmental factors. Early-onset or familial Alzheimer's is inherited and appears between the ages of 30 and 60. Approximately 10 percent of Alzheimer's patients (some 30,000 Canadians) suffer from this disorder and may live with the disease for up to 20 years before they die.

Four or five different academic groups and several biotechnology companies were looking for the early-onset gene at the same time. St. George-Hyslop's group started 10 years ago, studying a series of families in which Alzheimer's disease was clearly inherited. Three years ago they mapped the gene to a region on chromosome 14, after which they tried to

identify the gene and find the mutations that cause the disease. Having examined all known genes on the chromosome without finding mutations they started looking for a new gene. Nineteen genes later, they found one whose mutations change the amino acid sequence of its protein. The mutations are only found in people who have Alzheimer's disease, so their search was over.

The discovery captured much attention and a peer-reviewed article was to be published in *Nature* on June 29. As is common practice for academic journals, news organizations were informed about the discovery beforehand, giving science writers time to prepare their articles, on the understanding they not publish anything until June 28 at 6 p.m. However, on June 28,

respect embargoes) the gene story was deemed significant enough for a major newspaper to risk the loss of a valuable source.

In St. George-Hyslop's view the discovery is important because it provides an otherwise unobtainable clue into the biochemical pathways causing Alzheimer's. "This will be helpful in defining other causes of the disease as well as providing effective treatments in the future," he says. However, it may take 15 years to find a cure, depending on the amount of money and research time available.

Researchers believe at least four genes are involved in Alzheimer's (three have been located). Those who inherit the defective gene identified in June can now be diagnosed. All that is needed is a simple blood test. St. George-Hyslop says the test must be accompanied by rigorous genetic counselling and his group has proposed a process: Those seeking the information must do so voluntarily, they must have a family history of Alzheimer's and they should be assessed to determine if they are ill already. They must be counselled to establish whether they understand and accept the results of a test. If one is given, they must be counselled again and offered an opportunity to stop the process before results are known. If they proceed, long-term counselling follows.

At the centre the search continues for the fourth suspected gene. The research is funded by the Alzheimer Association of Ontario, the Canadian Genetic Diseases Network under the federal network of centres of excellence program and the Medical Research Council.

Saddlemyer Named to Order

PROFESSOR EMERITA ANN Saddlemyer, former master of Massey College, has been named an officer of the Order of Canada.

She joins 78 others who will receive Order of Canada designations in Ottawa this fall. U of T supporter Murray Koffler was promoted within the order from member to officer. Being named to the order is one of the highest distinctions a Canadian can receive; an appointment recognizes a lifetime of outstanding achievement and service. Saddlemyer retired July 1 from the Department of English at Victoria

College and the Graduate Centre for Study of Drama.

Her citation states: "An authority in the study of Anglo-Irish literature, she has written and published extensively on this subject. She also pioneered the study of Canadian theatre history by establishing a related journal, research program and courses at the University of Toronto, and is a prime mover in the Canadian Theatre Museums Project. The first woman Master of Massey College, she has helped shape a generation of theatre scholars."

Saddlemyer received a BA from

the University of Saskatchewan in 1953, an MA in English from Queen's University and PhD from the University of London, Bedford College, in 1961. She joined U of T in 1971 and was director of the drama centre in 1972-1977. In 1981 she was the first woman to be made a fellow of Massey College. Over her career she has received many honours including the U of T Alumni Association Faculty Award in 1991 and a YWCA Women of Distinction award in 1994. She was a founding member of the Canadian Association for Irish Studies.

Fundraising Efforts Bear Fruit

BY ALFRED HOLDEN

THE ECONOMY IS SLUGGISH. AT Queen's Park and Ottawa the cupboard are bare. But private support to U of T through donations has increased dramatically.

In 1994-95 the University took in 50 per cent more in donations than a year earlier — a total of \$31,293,744 from all sources, according to year-end results submitted by the Division of Development & University Relations to Business Board June 26.

In one key program, major gifts, twice as many donors gave almost three times as much money — 146 donors gave \$11,332,381 in 1994-95, compared with 72 donors who

gave about \$3.8 million in 1993-94.

Another donation category, bequests and planned gifts, more than doubled the number of donors since 1993. That in turn has doubled the amount U of T can expect to eventually receive on this count, up from \$30 million to more than \$60 million.

The division developed a new fundraising strategy in 1993, aiming to generate 10 per cent of the University's operating budget by 2000. (Last year 10 per cent would have amounted to approximately \$58 million.) In order to meet that goal the University plans to launch a national and international fundraising campaign in 1997, expected to be one of its most ambitious ever.

Jon Dellandrea, vice-president and chief development officer, told the board U of T has done well overall, especially where it committed extra resources. For example, six new major gifts officers were hired in 1994 and more are being hired.

Ravi Frankle, director of alumni and development, said a strategy emphasizing the long term has been at the heart of recent fundraising efforts. "What we're doing is developing lifelong relationships with communities, alumni, friends and corporations," she said in an interview. "It's not that we're just discovering people out of the blue. We do our best to nurture relationships and keep people involved with the University."

ARCHED ART



There's a new look at the entrance to the School of Architecture & Landscape Architecture. Twelve students chopped, stripped and prepared pine trees to form a canopy over the front steps on College St. The unusual entry is part of a fourth-year studio design project called Revisiting the Forest: The New Timber Technology Studio. It will remain until September.

JAMES RANNO/PH

Universities Take One Percent Budget Hit

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budget and the likelihood of more provincial constraints in Ontario, I look forward to staying very active with the innovative alliance of public and private sector partners who built the HPCO project. Science and research are the keys to Ontario's place in the new economy, and the minister of education and training and the province of Ontario must be active partners in advancing this agenda."

Snobelen said he is reviewing all actions of his ministry and will come out with a mini-budget in the fall. He said it is up to each university to decide how to deal with the cuts. Generally, he noted, the ministry is "being responsible to our commitment to make sure that the customers of the education system aren't affected by this."

Annamarie Castrielli, Liberal critic for colleges and universities and

former chair of Governing Council, disagrees that the Tory government is being responsible. A first-time MPP, she calls the \$16.8 million cut "a huge chunk." However, the statement lacks detail, she said in an interview. "All we know is that it's a massive cut that ignores the value of education. If we do not move very quickly to promote education and make it the centre of the economy, I am not sure our economy will recover."

Bud Wildman, NDP critic, said the cuts mean that the cost of post-secondary education will increase. Upcoming tax breaks, not the deficit, is the real reason the government is reducing spending, he stated. The Conservative party promised to introduce 15 per cent tax cuts in 1996, he said. To do so, "enormous amounts of cuts in services are needed."

Members of the university community will be affected by the financial statement in other ways. There will be changes in government funding of child care, for example, but the impact is still uncertain, said Jan Nolan, U of T's family care adviser. However, the government has announced plans to examine the child care system as a whole, including wage subsidies, and Nolan welcomes the move. "We all want to see public funding used as effectively as possible," she said. "High-quality, publicly funded child care is a priority and we want to ensure the needs of our student and employee parents are clearly heard."

Snobelen said that for universities to survive and excel in the long term,

they should adjust to new technologies, to the expectations of a changing student body and to many other challenges. The emerging knowledge-based society is driving all these changes, he said. "Most university people I have talked to over the past four or five years are pretty excited about this."

With respect to tenure for university instructors — an issue that surfaced during the election campaign — Snobelen has no plans to introduce changes. His party made no commitment to abolish tenure, he said.

Meanwhile the education ministry has been without a deputy minister since July 18 when Charles Pascal was asked to leave the post. Snobelen could not say when a replacement will be named.

Pritchard commented that Pascal was "an excellent deputy minister" and that a lot was accomplished during his leadership. The appointment of a new deputy is critically important, Pritchard said. "I expect Dr. Pascal's successor will continue his tradition of strength and leadership."

MEET THE EDUCATION MINISTER



John Snobelen

JOHN SNOBELEN, MINISTER OF Education and training, was elected to the Ontario legislature in June 1995 and represents the riding of Mississauga North. The Guelph native was president of Jamco Environmental Inc., a waste-material trucking company; Mid-Ontario Equipment Ltd., a specialized transportation equipment company; and The Cameron Group, a business consulting company. Snobelen is past chair of the Hunger Project and a founding member of the National

Reining Horse Association.

"I have been very impressed by my initial conversations with the new minister," says President Robert Pritchard.

"He is highly intelligent, very committed to education, broadly read and open to a constructive process of change. He shares my view of the importance of education to our future. Our challenge is to work with the minister to create a policy and financial environment consistent with our shared goals."

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SENIORS ON THE MOVE

Sunnybrook's Centre for Studies in Aging wants to keep the elderly mobile and independent

BY ALIDA MINCHELLA

WHEN PROFESSOR GEOFF FERNIE WAS JUST starting out in his career many years ago, his colleagues probably questioned his chosen field of study. "In the early days we were focusing on toilets. We faced some academic snobbery," says Fernie of the Department of Surgery and director of the Centre for Studies in Aging at Sunnybrook Health Science Centre. "A lot of academics assumed that the simple stuff was beneath us."

But there's nothing simple about aging or the problems that accompany it. Nor, for that matter, is there anything simple about the research in which Fernie and his team at the centre are involved. "In a way, simple things take more intelligence to figure out," Fernie says. "These are problems that have been around for hundreds of years — falls, incontinence, lifting — but no one has found solutions to them."

The search for solutions, with a focus on mobility and coping in the home, how to avoid falls and cognitive dysfunctions such as memory loss, fulfil the centre's primary mandate: to find ways of making life easier for the elderly, granting them independence and dignity so they can live at home longer.

The centre has its origins at West Park Hospital in Toronto where it started as an amputee rehabilitation program in 1973. Fernie points out that while the interests of the Faculty of Medicine lay in acute care at that time, long-term care — especially of the elderly — was badly neglected. "That's when we started to get interested in the common problems." Sunnybrook, with more than 700 beds for geriatric patients, recruited the West Park team and changed its mission. Today the centre is an international leader in both pure and applied research in studies of aging, with a hand in both product design and development. "We are fiercely proud of the basic research we do but we are also fiercely proud that we've achieved this balance," Fernie says.

The Centre for Studies in Aging is one of seven research programs at Sunnybrook. Over the past five years, research at the health centre has experienced tremendous financial growth — external funding jumped from \$3 million in 1989



Professor Geoff Fernie, director of Sunnybrook's research in aging program, and volunteer Alice Campbell test the SkyWalker.

to \$22.3 million last year. This increase is a result of the calibre of researchers recruited and their ability to obtain funding through grants and partnerships with corporations and government, says Dr. Mark Henkelman, Sunnybrook's vice-president (research).

Fernie attributes some of the centre's success to researchers who go "more than halfway." Normally by the time a concept has reached the stage where it can be used, most academics lose

interest. But at the centre, an idea is nurtured from its embryonic stage — with input from focus groups and advisory committees — to the time it comes off a production line. "We get involved in writing the business plan, in the plant layout, in selecting people. We even stand at trade shows to sell things," he says. "We design products with knowledge of the industry and the market."

One of the more popular devices developed at the centre is an unpretentious item called the SturdyGrip. The most common problem that comes with age is a lack of mobility. Between 30 and 40 percent of people over 65 years have difficulty getting around; more than 65 percent have this difficulty by their 80s. "The biggest problem for people who can walk is not getting from A to B, it's getting to A," Fernie says. The SturdyGrip, a big seller in North America and Japan, is a secure bar that runs from floor to ceiling. Usually installed near a bed or chair, it makes it easier for people to pull themselves upright from a sitting position.

Another focus for the team is the walker. Two million Canadians use them yet most of the walkers are not up to snuff — either they're too light, too tippy or the brakes are too difficult to control. Enter the SkyWalker, designed to address the shortcomings of the walkers on the market.

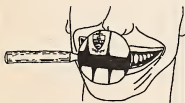
There are numerous other projects designed to examine or solve some common problems involved in growing older. The "Spadina bus" — a sophisticated moving platform named for its jerky movement — is used to study balance. Between 30 and 60 percent of people over 65 fall at least once a year in Canada, resulting in about 20,000 hip fractures. The SturdyLift, a device in which people sit, is an extremely valuable tool for caregivers who want to avoid back injuries, Fernie says. And still in the prototype stage is a wheelchair — dubbed The Rocket by his son — that performs a variety of functions, including spinning.

The centre's research team may still focus on the simple stuff but its solutions are anything but. One day its work may touch the lives of many of us in society. "My dream is to be able to have every person, however cognitively or physically disabled, independently mobile," Fernie says. "There is nothing more damaging than having to stay in one spot all day or depend on other people to move you around."

JEWEL RANDOLPH

SPOTLIGHT ON RESEARCH

TOOTH IMPLANT AND NEW ASPHALT HIT US MARKET



U of T inventions hit US marketplace

Two technologies developed at U of T — an artificial tooth root used to anchor dental implants and a process that employs recycled plastics and rubber to strengthen paving asphalt — are about to enter the US market.

Invented by a team of Faculty of Dentistry researchers headed by Professor Robert Pilliar, the Endopore implant has been sold by Innova Corp. to Canadian dentists for about a year. Now the US Food & Drug Administration has given Innova approval to market the implant in that country. Unlike screw-type implants the Endopore has a porous coating that allows bone to grow into it, making plates, bridge-work or single teeth affix themselves

securely to the jaw. Pilliar expects US dentists to start using the Endopore within the next six months.

Polyphat Inc., a company selling technology that improves asphalt, recently signed its first North American licensing agreement with Huntway Partners of Los Angeles. Huntway will manufacture and distribute asphalt that has been modified using Polyphat's technology. Developed by a research group headed by Professor Ray Woodhams of the Department of Chemical Engineering & Applied Chemistry, the process mixes asphalt with recycled plastics and rubber from waste tires to produce high-performance, long-lasting paving materials. Innova and Polyphat are also pursuing agreements in other parts of the world.

Ontario childhood cancer rates mapped

Childhood cancer rates are not evenly distributed across Ontario according to a new U of T study.

Using information obtained from the Ontario Cancer Registry Professor Cindy Hunt of community health nursing explored the distribution of the six most common forms of childhood cancers among 31 health districts in Ontario. She also mapped the incidence according to age, gender and type of cancer (leukemias, central nervous system cancers, lymphomas, sympathetic nervous system cancers, Wilms' tumour and bone cancers).

Then, with information from the Canadian Census, she compared the cancer rates of the different health districts. She found that patterns of risk factors across the districts had more similarities by age of onset than by type of cancer. She looked at the relationship between such things as social factors, the number of physicians and the incidence of cancer. She found that ethnicity explained the largest proportion of the variance among districts. Physical environment, productivity and wealth also contributed significantly.

This is believed to be the first time that Ontario childhood cancer rates have been examined on their own. In the past childhood cancer rates were lumped with overall population cancer rates and this left out important information, says Hunt. Her findings could help in the development of effective cancer screening programs.



Disinfecting drinking water studied

U of T civil engineers are looking for the best way to disinfect Canadian drinking water. "It's a balancing act, in that we want to find alternatives that can destroy as many of the harmful micro-organisms in drinking water as possible while keeping potentially harmful

disinfection by-products to a minimum," said Professor Robert Andrews.

Chloroform, a known carcinogen, is a by-product formed when using chlorine. Health Canada recently called for a reduction in chlorinated by-products to approximately one-third of their previous levels. However, at the same time that communities must reduce disinfection by-products in drinking water, microbiologists have discovered organisms such as *giardia* and *cryptosporidium* that are much more resistant to traditional disinfection techniques. Both organisms are believed to cause gastrointestinal problems, particularly in AIDS sufferers.

Andrews is also investigating what happens when individual or combinations of disinfectants are applied to specific water types at different temperatures to understand what contributes to the formation of disinfection by-products. Research is funded by Health Canada and the Natural Sciences & Engineering Research Council.

NINA ANDERSON

RACE, RESISTANCE AND RIGHTING THE WRONGS

Human rights advocate Stuart Saunders has been relentless in a fight to redress the wrongs of apartheid.

By KARINA DAHLIN

ONE THING YOU CAN EXPECT FROM HONORARY degree recipients is a speech full of good advice. The address by Stuart Saunders was no exception. On June 20, when he was honoured at convocation, he counselled students to recognize and face ethical dilemmas with courage. The important thing, he said, is not losing battles but winning the war.

Spoken by others, such words might rightly be described as clichéd fluff. But coming from Saunders they have meaning.

He offered another piece of advice during an interview June 16: "When your telephone is tapped or your office is bugged it is important that you speak distinctly so they don't misunderstand what you are saying."

As vice-chancellor and principal of the University of Cape Town in South Africa, Saunders played a pivotal role in healing a society once divided on the basis of skin colour, said Dr. Alan Hudson, president of The Toronto Hospital and a professor in the Department of Surgery, who introduced Saunders to convocation. Throughout Saunders' academic career — from 1948 when he enrolled in university and racial discrimination was entrenched in law to 1990 when the African National Congress was no longer banned and black activist Nelson Mandela freed — he has witnessed the consequences of officially sanctioned racism.

During this period university campuses in South Africa operated with a certain degree of autonomy but were not exactly sanctuaries of freedom and justice. Separate universities existed for white, mixed-race, Indian and African people; most of the 21 institutions were for whites who account for five million of the nation's 35 million population. Only when courses were unavailable at their own universities could black Africans, for example, attend white schools and only with permission from the minister of education. But they were not allowed to share residences with whites, and black faculty teaching at white universities were not permitted to own a home in a white neighbourhood. Books were banned, spies recruited on campus and telephones regularly tapped by police.

In 1981 Saunders became head of the University of Cape Town, the nation's oldest with 14,500 students, 2,000 administrative staff and 1,200 teaching staff in 10 faculties. A medical researcher of renown, he took his new role seriously. Protecting academic freedom evolved into a fight for human rights; he fought with tactics that sometimes stayed within and sometimes strayed outside the law.

In this position he exposed half a dozen campus spies. Since no one could be fired for working for the police, Saunders made their lives uncomfortable — he talked to them about their activities and identified them to the national press. Most left, including a new administrator whose covert activities were discovered when his name was added to the university's pension plan. The computer revealed that the man was already entitled to a pension from the police, Saunders recalled. Although this information was later dismissed as a mistake Saunders summoned the man to his office and told him there was "incontrovertible evidence" he was a police spy. To Saunders' amazement the man jumped out of his chair, rushed over to the telephone, unscrewed it, then crawled on his hands and knees along the baseboard — looking for phone bugs. Satisfied he would not be overheard, he collapsed in a chair and confessed.

Under Saunders' leadership, the university arranged for non-white faculty members to live in white neighbourhoods. Illegally the university purchased homes and resold them to the ostracized faculty. Books such as those written by Karl Marx were prohibited under the Suppression of Communism Act, but UCT bent the rules and provided access to them. New courses, such as one on comparative African government and law, offered nowhere else were deliberately created to increase the number of non-white students. Once students of other races were admitted to white schools, they could stay.



As time passed, the permit system for students became impossible to manage, so the government replaced it with a quota law. Fifteen percent of a white university's enrolment could be of mixed race, the law said. Some universities accepted this as a step in the right direction, but not Saunders. "A step in the right direction is a very dangerous expression if the basis upon which you make that step is clearly skewed," he said. "Once you hit 15 percent what happens to the other students?"

Yet the law was passed in 1985. Shortly afterwards Saunders was asked to meet with the minister of education. To his surprise the minister told him the law would never be enforced because universities like UCT were opposed to it and it would give the country a bad international image. "The only people who enforced quotas in higher education in our time were the Nazis in Germany

and the Stalinists in Russia," Saunders explained. "The government did not like being lumped together with them."

Significantly, this was the first time the national government yielded to anti-apartheid forces, Saunders said. Then came another battle — this one was crucial.

Universities in South Africa are funded by the government. To curtail their public rejection of apartheid, the 21 universities were told by government officials that if they did not put a stop to campus protests, their grants would be cut. Two — UCT and the University of the Western Cape — refused and took the education minister to the Supreme Court of South Africa. Its three judges ruled unanimously in favour of the universities, rejected the proposed regulations and refused the minister the right to appeal.

In the words of Saunders, "It couldn't be more explicit than that."

ND
ONG
nequities of apartheid



The event was the most hopeful and exciting in his institution's struggle for democracy, he said.

Today the challenge for Saunders is to maintain the quality and government funding of his institution. The former white universities of South Africa must adjust to equal-opportunity demands and the recruitment of outstanding black scholars is a priority, Saunders said. "We must ensure that an increasing number of black students is admitted and succeed so they can occupy posts as faculty and staff." He is pleased that progress is being made. This year black students comprised 55 percent of first-year enrolment at UCT.

It's a far cry from the days of segregation and testifies to Saunders's steadfast support for equality. It may also be a far cry from a future where enrolments truly reflect the population mix in South Africa.

BE A REBEL WITH A CAUSE

Fifteen honorary degree recipients offered their best advice at spring convocation, including the four cited here

On June 19 broadcaster Peter Gzowski:

THIS IS A SPLENDID DAY FOR ALL OF US, ISN'T IT, and not least because it's taken me a bit longer to reach this stage than I dare say it has you. I wonder if I may be setting a record here for elapsed time between date of enrolment (1952 in my case) and graduation (1995)....

I have led, since I left these halls, a chequered career. In the first year I didn't graduate, and when all of my friends who did went to Paris and London and Zagreb, I went to Moose Jaw, Saskatchewan. Since then, as they say in my business, I have pounded the same beat, from Pangnirtung to Prince George to Portugal Cove. I still haven't been to Paris, except the one on the Nith River in Ontario where Wayne Gretzky's grandmother used to live, but I've been to Aklavik seven times. In my travels, and at the listening post I've been lucky enough to occupy on national radio, I've witnessed revolutionary change — in politics, in the workplace, in the relationships between men and women and certainly in our cities, in the very nature of our population. And nothing has so invigorated me as the knowledge that waves of immigration have brought new energies and new visions to the land we share. And it pleases me more than I can say how many of their children share this platform with me today.

This is a great country, staggeringly beautiful, endlessly welcoming, constantly surprising. You have to know it as well as I have come to know it to know that no one will ever know it at all. Further, by the time some of you have a chance to stand here and challenge some grandaunts of the future — and to talk about how your classmates have risen to the elite — it will have changed in ways we cannot now possibly foresee. But the course it moves on will be yours to set, and the hopes of those of us who pass it on to you are high.

On June 6 Audrey McLaughlin, leader, New Democratic Party of Canada:

BE A REBEL, A REBEL WITH A CAUSE. NO DOUBT YOU are now imagining yourselves in a black leather jacket and a revved up motorcycle — all the cultural symbols of rebellion. That is one way to be a rebel, but there are others. I think a rebel can stretch beyond the barriers of societal expectations, the self-imposed limitations and the strait jacket of conformity. Rebels act on their dreams and seek challenges and never underestimate themselves.

There are many rebels with many causes and our country has been enriched by them. In fact many of those rebels I admire most have had some connection to the University of Toronto. They make it even more meaningful for me to receive this honorary degree today.

These are rebels of conscience and rebels of hope.

For example there is Professor John Polanyi, who of course won the Nobel Prize for chemistry in 1986. Just last year he articulated the point I am trying to make. In an article called *The Magic of Science* he says that by creating a community that "encourages daring and does not begrudge the individual the freedom to dare," we can at times find answers and truths we never dreamed of. But we must have the courage to roam and to dare, but to do so with purpose and determination.

Another scientist and rebellious thinker is Professor Ursula Franklin, who has been a source of inspiration and wisdom for me. She is someone who has turned accepted ways of thinking about things upside down. She is sometimes classified as an outsider within in her profession because she does not divorce science from the complexities of human life. She believes that technologies reflect culture and that there are values attached to technology. She talks about the social structuring of science and discusses it in terms of living and working in the real world....

Many rebels will tell you it isn't always easy, sometimes even the smallest deviation from the common way of thinking can leave one

on the outside. But looking at things differently, pushing at the borders, is in many ways what it means to be a rebel.

On June 7 Peter Munk, chair and CEO of Barrick Gold Corporation and The Horsham Corporation:

YOU PEOPLE ARE A PRIVILEGED LOT. YOU ARE THE elite. You have received the very best of our country can give you. You have received the very best education you can give you. You've got all the information. You've got all the knowledge. You got it from the best people and from the best institution. But let me tell you, it is all for naught unless you can turn that input you have received into success.

There is more to success than meets the eye. It is so easy to overlook because of a drift over the last 20 years towards an increased conception of liberalism that there is no connection between wealth creation, wealth generation and wealth distribution. But we all know, every one of us, that we can't keep on supporting the scholastic, artistic, health benefits, the charitable, defend the cause of freedom internationally, unless we are able to generate wealth. That responsibility, ladies and gentlemen, lies on your shoulders. We've done our bit. If you, the elite, if you, the best educated ones, fail and do not succeed, I fear for the future of our country and, indeed, for the future of our society....

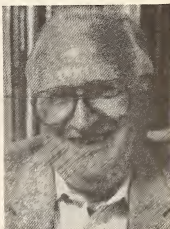
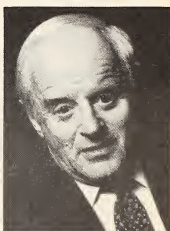
Success is not like sports. It's not like going on the circuit to play tennis. It's not like a competitive activity where only the second and third and the fourth and maybe the 10th is remembered. You can be enormously successful being the 143rd most successful person in Ontario or Hamilton. You can be totally fulfilling all your dreams being the 332nd in Oshkosh. So, it is a wonderful thing because success is all about fulfilling your destiny, optimizing your potential.... But above all and beyond everything else, do not be intimidated by handicaps and do not be denied the pleasure of carrying on by a temporary setback or failure.

On June 20 University Professor Emeritus Louis Siminovitch:

IN PASSING FROM THE RELATIVELY SHELTERED WORLD of structured education to the so-called real world, you will be acutely aware of the rapidly changing dynamics of present-day society and culture. Nowhere is this more evident than in my own field of genetics. As I am sure many of you are aware, in genetics we are witnessing a veritable revolution in technology that promises to provide insights inconceivable even two decades ago. There is now a very reasonable possibility that our total genetic makeup will be ascertained at the molecular level very early in the next century. Simultaneously, information is accruing with amazing rapidity on how our genes work in our many organ systems. Increasingly, we are treated to the delight of the unity of biology: extraordinarily, genes in the fruit fly, the lowly worm, even baker's yeast demonstrate exactly the same function in humans. We are truly witnessing a new frontier in medicine....

However, this exciting and beautiful world of genetics and, for that matter, all of science, remains opaque to the vast majority of our citizenry. Certainly not much has changed since C.P. Snow, many years ago, articulated the need for increased dialogue between the two cultures of the humanities and the sciences. Which brings me to the role of the university.

The mandate of a university is the discovery of knowledge and its dissemination. It is important to advance the boundaries of scholarship through original investigation and equally important to bring knowledge and understanding to each new generation of young people. A university should help students achieve the capacity for productive careers, but it is also expected to provide its students with an appreciation of the life of the mind and the basic skills and knowledge to encompass the whole spectrum of social and human activities.



LETTERS



IN TIMES OF RESTRAINT THINK "HUMANITY"

For several years already the University has been operating on diminished, and prophecies for the immediate future do not augur well. Under the threat of funding cuts, deans and chairs are pressed — and pressing others — to economize and to find external funding. Faculty members receive notices urging them to apply for outside grants.

In this frenzied atmosphere some questions need to be asked about the quality not only of the education that may survive but also of the human values that are supposed to support collegial relations as well as our entire civilization.

Is increasing workload the answer? Should deans and department chairs turn into stern taskmasters scrutinizing time sheets and enrolling figures to the detriment of seeking and implementing a vision for education?

Is downgrading non-revenue-producing research the answer? Where will our humanities and much of our social and natural sciences go?

Even more important: what about collegial relations? In a large university these relations tend to be institutional, i.e., impersonal, to begin with. Should they also be dehumanized?

Fiscal restraint may lead us to budgeting on weakness rather than strength. A case in point regards disability insurance as a funding source. After a serious illness — sometimes related to overwork — a colleague who is recovering may look forward to returning to active service in a department that remembers his or her lengthy years of service and is willing to permit less strenuous activity. But a situation may also develop where ill colleagues feel pressured to stay ill, or become even worse, so that the department can continue to collect disability insurance. Of course, if mistletoe is to survive on oak trees,

it cannot eat up the trees. And if pressures become insufferable, the colleagues may depart from this world without leaving any death benefits to the concerned departments.

Faculty and staff members do get sick; and departments get compensation in disability insurance. But administrators tread on thin ice if they seek to capitalize on their colleagues' misfortunes. And there may even be risk of disability fraud.

Our less robust colleagues are humanly more vulnerable. They may be among those who have made the most contributions, who can continue to make important contributions when given sympathetic understanding. Pressures on the other hand may turn into harassments, shorten lives and poison the entire atmosphere. And if a university goes from being impersonal to being inhumane, our civilization is at a dead end.

In times of fiscal restraint our university, as a community, may have to pull together and think "thrift." But we should not let the economy drive away our most valued commodity: our humanity.

JULIA CHING
UNIVERSITY COLLEGE

MORE THAN A BACKLASH

I agree with Mary Lynne McIntosh that the equity survey completion rate shows no backlash (Equity Survey Completion Rate Shows No Backlash: McIntosh, June 26). Since well over one-third of the University's entire workforce did not return the survey in spite of the threat of legal action repeated no less than three times in bold print ("returning the questionnaire is required by the Employment Equity Act") it looks more like a mass revolt.

Despite this repudiation and the pending repeal of the act, I am sure the employment equity

office will soldier on with this exercise in discrimination — after all, their jobs depend on it.

JOHN GRAYDON
DEPARTMENT OF CHEMICAL
ENGINEERING & APPLIED
CHEMISTRY

LISTEN TO TAXPAYERS

I was disappointed but not surprised to read that the equity convention feels the impact of Ontario's scrapping of quota legislation will be "limited" (U of T Stays Equity Course, June 26). Quite apart from the fact that "equity," as practised, is sexist and racist (since it discriminates against one sex and one skin colour), I should think that the University would care about the majority opinion of Ontario taxpayers. These taxpayers — the University's benefactors — spoke quite plainly in the last election!

P.C. HUGHES
INSTITUTE FOR AEROSPACE STUDIES

ALLOW ROOM FOR NEW TECHNOLOGIES

I was concerned by a letter by Brent Graham (Carpal Tunnel Caveats, May 29) that appeared in response to the article Light Relief, New Laser Therapy May Be the Answer for Sufferers of Carpal Tunnel Syndrome (April 24). Among other things Dr. Graham said "there is no evidence whatsoever that laser therapy of this nature is an effective treatment of CTS." He also said "most individuals with clear symptoms of [CTS] are elderly and not engaged in any type of strenuous upper extremity use" and proposed that the presence of symptoms outside the hand should be considered as suggestive of a diagnosis other than CTS.

Unfortunately the long-term success of conventional conservative therapy is far from satisfactory. In this regard it is important to note that the original article in *The Bulletin* should have said that

conventional conservative therapy including splint immobilization, non-steroid anti-inflammatory drugs and steroid injections to the carpal tunnel have only a 20 to 40 percent success rate. Surgery should not have been mentioned as part of that list.

Interestingly Richard Bernstein from Yale University's school of medicine says in a recent review of endoscopic carpal tunnel release that recurrent CTS, which is activity related, is not a surgical disease but should be treated with activity modification. "Surgical release for work-related CTS is less effective with a higher recurrence rate if the patient returns to his previous activity," Bernstein says, and "symptoms can progress in some cases up the arm, extending to the forearm, shoulder or neck."

As the story in *The Bulletin* reported, patients have shown substantial improvement in what we believe is a breakthrough technology with low-energy photon technology. There are encouraging data on this approach in a number of Canadian clinics and hospitals for more than 2,000 patients with different dermatological and soft tissue chronic problems. With that in mind we have started double-blind studies with low-energy photons at Chedoke-McMaster Hospital and Sunnybrook Health Science Centre for musculoskeletal and dermatological conditions.

Data from The Toronto Hospital Hand Program says surgery provides excellent and good results in 86.5 percent of non-diabetic patients with CTS and 75 percent in diabetic patients with 35 percent of complete resolution of symptoms. Patients who are not good candidates for surgery are workers with work-related recurrent CTS and the study concludes "there was a higher chance of poor outcome in patients with physically strenuous work activities."

Further technology development for CTS sufferers has provided us

with promising results. For example, a group of American Scientists recently reported results of a double-blind study on CTS and confirmed the finding made in Toronto.

Our group does not claim to have the magic bullet. As I said in the article, "We really want to understand better how low-energy photons interact with body tissue to bring about such dramatic results." Obviously patients and caregivers have already noted that lasers do make a difference, since many physiotherapy clinics in Canada are already using different laser devices for musculoskeletal injuries.

I understand that Dr. Graham is a surgeon who performs carpal tunnel operations for a living. Our purpose is not to endanger his livelihood but rather to further the cause of medical technology. We believe we have an approach that can alleviate repetitive strain injuries symptoms and are willing to prove it works. Unfortunately, with emerging, fragile biomedical technologies such as this one, it is all too easy to cast stones. Scepticism, especially in the scientific community, is a healthy and altogether necessary thing that should be welcomed. It is part and parcel of being a scientist doing cutting-edge research. But I worry that uninformed scepticism is not only foolhardy but can keep us mired in the dark ages of medical and technological advancement.

NORMAN SALANSKY
FELLOW, AMERICAN SOCIETY FOR
LASERS IN MEDICINE & SURGERY

LETTERS DEADLINES

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ACCOMMODATION RENTALS AVAILABLE —METRO & AREA—

Sabbatical rental. Professor has a 4-bedroom furnished house for rent on a tree-lined street off downtown. 10-minute subway to U of T. \$2,000/month includes utilities. January to July 1996. Marc Lewis, 923-6641, x2443.

Admiral Road — close to University and hospitals. Spacious lower-level, private entrance, fireplace, one + bedrooms. Furnished (flexible). \$795/month, utilities included. Parking available. From July 1, 1995. (905) 822-4015 (daytime, weekdays).

Admiral Road. Spacious lower-level student apartment. Private entrance, quiet, 5 appliances. Available September 1. Parking available. \$795/month + hydro. (905) 822-4015 days.

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Sabbatical rental, January-July 1996. Professor's furnished house, quiet tree-lined street, High Park area, near transit (30 min. to U of T), shopping, 2 bedrooms + study/living, laundry, garden. Garage negotiable. Prefer couple/couple with baby. No pets, non-smokers. \$1,500 + utilities. (416) 789-9291.

Fully furnished, 3-bedroom, 2-bath Tudor home on quiet residential street. Den has sliding doors to deck + private garden. 20 minutes from downtown. Separate basement apartment is occupied by long-term tenant. \$1,900/month + utilities. 4 months minimum. 239-6588 or 232-2100.

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Unfurnished house. Broadview/Danforth. 4 bedrooms, 2½ baths, eat-in kitchen, laundry, garage. Close to subway, shops and schools. Suit family or couple. Available September 1. \$1,850 + utilities. (416) 785-0580.

Old Mill/Jane subway. Owner's 2-bedroom apartment in adult duplex. Furnished, modern kitchen, separate dining-room. Outdoor parking space. September to April (negotiable). \$1,000 monthly plus phone. Phone (416) 782-3371.

Sabbatical rental. Large fully furnished condominium apartment opposite park. 2 bedrooms; 2 baths on suite; balcony, A/C, 6 appliances, pool. Prime central area. 15 minutes U of T, subway down for. One for one year. \$1,400/month inclusive. 787-4857.

Bloor West Village/Annette. Near Runnymede subway, furnished home, recently renovated, new maple floors throughout, wood-burning stove, 3 bedrooms + family, 2½ baths, 5 appliances, air, central vac, garage. \$1,400/month + electricity + gas. No pets. August 24 for 2 years. 767-7409.

Mississauga City Centre. 2,600 sq. ft. modern home, hard wood, ceramic, quiet location on green belt. Four bedrooms, den, 3½ bathrooms (master bedroom has en suite). Backyard, pool, cabana. Near Square One, library, YMCA. Available ASAP (flexible). \$1,850. (905) 897-9117.

St. Clair/Bathurst. 3-bedroom home: 2 full baths, 5 appliances, finished basement, deck and garden. Near Wychedwood Park/Hickstead/Oakwood schools. \$1,450/month plus utilities. Available August 15. Phone (604) 688-3080, fax (604) 688-3085 or Compuserve 102064.1153.

Yorkville — great location! Bright, elegant ground floor in beautiful, quiet house facing park. Two rooms + large bathroom, french doors walk-out to garden, security, laundry, parking available, use of kitchen. Suits a non-smoking professional male. \$1,350 including utilities. 956-9535.

Spacious, furnished, one-bedroom apartment for sublet, for 2 weeks or more. Available July 26 — September 15. Great location: U of T, Royal Ontario Museum, Yorkville. Quiet building, 24-hour doorman, view, central air, parking. Queen-sized bed, 2½ baths. Reasonable. Phone (416) 964-2283.

Bathurst/St. Clair: spacious, 4-bedroom, detached home, unfurnished. Fireplace, 2

bathrooms, laundry, parking, garage, sun-facing private garden and deck. Close to schools, shopping and TTC. Seek responsible tenant — non-smoking, references. Available September 15, minimum one-year lease. \$1,400/month + utilities. (416) 654-6456.

North Toronto home. 3 bedrooms. Close to subway. Air conditioner. Reasonable rent to responsible people, look after 2 cats, small garden. July 25 — 1 month (some flexibility with dates). 322-1013, 599-5423.

ACCOMMODATION RENTALS REQUIRED

University of York Fellow and gentle responsible family seek centrally located, quiet, 3-bedroom home with safe yard. (416) 603-3039.

Couple with child to rent house/apartment. January to May/June 1996. Visiting York University. Can swap rent 3-bedroom house in Brisbane, Australia for same period. Contact David Marshall, Director, Media-Cultural Studies Centre, English Dept., University of Queensland, Australia 4072. Phone 61 7 365 2712 or DMARSHALL@MAILBOX.UQ.QLD.AU

Mature, non-smoking couple, attending Law Society Bar Admission course from September through December seeks furnished house or apartment in downtown Toronto. Reliable tenants who will care for their property. Contact Will or Judy (807) 468-9607 or (807) 468-3073.

Mature, non-smoking, professional couple, Halifax homeowners relocating, require rental accommodation for one- or two-year period, preferred location near subway to North York Centre. No pets. SP553 Grad. (416) 512-5968.

ACCOMMODATION SHARED

2-bedroom apartment to share. Laundry, subway, pool, sauna, mail, A/C, beautiful view. \$275/month. (416) 516-9929 evenings.

Great large or extra small bedroom. Renovated basement of Oriole Parkway mansion. 10 minutes bus from University. To share with 47-year-old male graduate. Non-smoker. \$450 or \$300/month. (416) 488-0228.

ACCOMMODATION OVERSEAS

Paris, Ile St. Louis, apartment in historic 17th-century manoir to major museums, libraries, archives. Two rooms plus mezzanine, bathroom, kitchen, sun, sunny, TV, laundry, fax. Available November 1 to April 1996. Fax (416) 961-0162.

Ideal for sabbatical leave. House in southern French village close to Mediterranean sea, beautiful inner country. Completely furnished: 6 bedrooms, 2 washrooms with baths, swimming pool, garden, dishes. Free rides to schools. 20 minutes from downtown Montpellier; all health care facilities available. Free starting August 1 for one year. Rate: 7,000 FF/month (\$1,400 U.S.). Write to Michel Teyssie, OSTOM, BP 5945, 34032 Montpellier Cedex 01, France. Fax (33) 67 54 78 00. E-mail: tteyssie@orstom.orstom.fr

ACCOMMODATION EXCHANGE

Two-bedroom plus loft home located on 16 acres in Northern Ontario. Quiet setting 20 kms. from Kenora. Ideal for study. Exchange for furnished house or apartment in downtown Toronto. September through December. Contact Will or Judy (807) 468-9607 or (807) 468-3073.

HOUSES & PROPERTIES FOR SALE

RENTING OR BUYING? Be efficient, be informed. Let us show the Toronto Real Estate Computer for you. Quickly determine what is available for your price range, neighbourhood and physical requirements. Financial assistance available. Patrick Ho Real Estate Broker, Grace Buile Sales Representative, (416) 595-0028 for details.

\$139,900. Opportunity to own a three-story condo townhouse in central Toronto. Enjoy private garden, large principal rooms, fireplace, 2 bedrooms plus den area, en suite laundry, underground parking. Streetcar ride to University. Call Heather Hines, Royal LePage Real Estate Services Ltd., Realtor, (416) 424-4900.

MISCELLANY

PERSONAL COUNSELLING in a caring, confidential environment. U of T staff extended

ad health care benefits provide excellent coverage. Dr. Ellen Greenberg, Registered Psychologist. The Medical Arts Building, 170 St. George Street, 961-6883.

INDIVIDUAL & COUPLE THERAPY. Experienced in brief and long-term therapies. Extended health benefits provide full coverage for U of T staff. Dr. Gail Beldie, Registered Psychologist, C.M. Hinks Institute, 114 Maitland Street (near Wellesley and Jarvis). 972-6789.

Violet Head, Registered Psychologist. Individual, family and group psychotherapy. Work with other cultures, women's issues, addictions, depression, etc. U of T staff health benefits cover cost. 200 St. Clair Ave. W., Suite 404, Toronto M4V 1R1. 922-7260.

Individual psychotherapy for adults. Evening hours available. Extended benefits coverage for U of T staff. Dr. Paula Gardner, Registered Psychologist, 114 Maitland Street (Wellesley and Jarvis). 469-6317.

Phyllis' Place of Esthetics. Your beauty solution at 186 St. George at Bloor. Offering very good rates. In the business for twenty-five years. Facials: \$35. Pedicures: \$25. Waxing and many more treatments available. Please call 928-9449.

Individual cognitive behavioural psychotherapy. Practice focussing on eating disorders, depression, anxiety and women's issues. U of T staff extended health care benefits provide full coverage. Dr. Janet Grewes, Registered Psychologist, 183 St. Clair Avenue West (St. Clair and Avenue Road). 654-1718.

Child care. Elder care. Maternity/parental leave. Free confidential information and referral services for all faculty, staff, students and their families. Workshops, support groups, help adjusting to Toronto. University of Toronto Family Care Advisor. (416) 978-0951.

Student of English, Université de Nice, will come to Toronto to tutor children in French in exchange for room/board. Terms/dates negotiable. Contact Natasha Jarrouse, 10 Avenue de Flotte, 06400 Cannes or call 93 38 53 16.

Institute of Child Study, Reverse Integration Project, Kindergarten. 10 spaces available September for enriched, full-day program; art, music, movement, swimming; excellent pupil/teacher ratio. \$4,150/year. Hugh MacMillan Rehabilitation Centre, Bayview/Eglington. Admissions: 978-3454. Fax: 978-6485.

SEMINARS

Creating Global Harmony through Toil and Peaceful Life.

Friday, August 4

Symposium on the Dowry/centenary of the destruction of weapons, 1895-1995, Croft Chapter House, 4 p.m. Science for Peace

MEETINGS & CONFERENCES

Société Internationale pour L'Étude du Théâtre Médieval. WEDNESDAY, AUGUST 2 TO WEDNESDAY, AUGUST 9

Eight international colloquium. A week of theatre and scholarship presented by national and international medieval experts, actors and artists from such coun-

tries as Holland, France, Germany, the USA, Spain, Italy and Canada. The congress has four objectives: to allow scholars to present their recent research; to allow scholars and performers to carry out a dialogue on medieval and early modern theatre technique; to present hands-on workshops on medieval acting, costumes and masks; and to offer medieval and early modern theatre to the general public. Victoria University. Registration: Andrea Schutz or Sally Beth MacLean, phone 585-4504, fax 585-4594, e-mail simt@epas.utoronto.ca

MUSIC

Voices for Peace.

SATURDAY, AUGUST 5

United Dutchbook Centennial 95 Choir & Drama Ensemble. MacMillan Theatre, Edward Johnson Building, 8 p.m. Science for Peace

EXHIBITIONS

THOMAS FISHER RARE BOOK LIBRARY

A Pride of Gifts: Donations from Our Friends, 1990-1994

TO SEPTEMBER 15

Selection ranges from a Babylonian cuneiform tablet of 1789 BC to incunabula to modern literary manuscripts. Thomas Fisher Rare Book Library. Hours: Monday to Friday, 9 a.m. to 5 p.m.

JUSTINA M. BARNICKE GALLERY

HART HOUSE

Contemporary Painting from Korea and Canada.

JULY 27 TO AUGUST 24

Highlights artwork of both Canadian and Korean artists. Both Galleries. Gallery

hours: Monday to Friday, 11 a.m. to 6 p.m.; Saturday, 1 to 4 p.m.

MISCELLANY

Maternity Leave Planning.

TUESDAY, AUGUST 15

A free workshop that adopts a highly practical approach to preparing faculty and staff for maternity leave and for a successful return to work. 2nd floor, 40 Sussex Ave. 12 noon to 2:30 p.m. Registration: 978-0951. Office of the Family Care Advisor

Choosing Child Care That Works.

WEDNESDAY, AUGUST 16

A practical session on choosing the best child care option for your family. Free to U of T staff, faculty, students and their families. 2nd floor, 40 Sussex Ave. 12 noon to 1:30 p.m. Registration: 978-0951. Office of the Family Care Advisor

Campus Walking Tours.

TO AUGUST 31

Hour-long tours of the downtown campus conducted by student guides. Tours available in English and Hindi. Map Room, Hart House. 10:30 a.m., 1 and 2:30 p.m., Monday to Friday. Information: 978-5000.



DEADLINES

Please note that information for Events listings must be received in writing at *The Bulletin* office, 21 King's College Circle, 2nd floor, by the following times:

Issue of August 21, for events taking place Aug. 21 to Sept. 5. **TUESDAY, AUGUST 8.**
Issue of September 5, for events taking place Sept. 5 to 18. **MONDAY, AUGUST 21.**

RESEARCH NOTICES

For further information and application forms for the following agencies, please contact University of Toronto Research Services (UTRS) at 978-2163.

GENERAL

UNIVERSITY OF TORONTO

The self-funded research grant program permits a researcher to receive a research grant in lieu of salary, through a mechanism that includes peer review. The grant may be used for all the purposes of a grant-in-aid of research, except salary for the principal investigator. Those eligible are faculty members or professional librarians. For further information contact Teresa Mulvenna at 978-2495. Deadline is August 1.

INTERNATIONAL

CHIANG CHING-RUO FOUNDATION FOR INTERNATIONAL SCHOLARLY EXCHANGE

The foundation's grants provide assistance for Chinese studies in the humanities and the social sciences. There are several categories, with various deadlines throughout the year. They are: institutional enhancement, research grants, conferences and seminars, publication subsidies (Sept. 15 or March 15), senior scholars, assistant/associate professor grants, post-doc/PhD fellowships, travel grants (Sept. 15 or March 15). Except where noted, the application process begins June 1 and ends Oct. 15. Complete details are available from Tom Fleming at 978-1870.

FOREIGN AFFAIRS & INTERNATIONAL TRADE CANADA

The Arts & Letters Division has announced the 1995 visiting foreign artists program. The program provides support to artists organizations wishing to invite artists of outstanding achievement to direct workshops and/or conduct classes. Organizations wishing to take advantage of this program are required to present a request in writing describing the project and providing pertinent information on the artist. Visits may extend for a period of up to six weeks. Foreign Affairs will provide support in Canada up to \$375 per week to the host organization and over the visitor's return air fare at economy rates. Send applications to Foreign Affairs & International Trade Canada, Arts & Letters Division, 125 Sussex Drive, Ottawa, Ont. K1A 0G2, tel. (613) 992-5726. Deadline is August 25.

FOREIGN AFFAIRS, HUMAN RESOURCES DEVELOPMENT CANADA AND ASSOCIATION OF UNIVERSITIES & COLLEGES OF CANADA

The program for North American mobility in higher education has been established to add a new North American dimension to student-centred cooperation and to encourage cooperation and exchange among institutions of higher education. The objectives of the program are to be achieved by promoting cooperative activities among the three North American countries through the encouragement of joint projects undertaken by consortia involving at least two active partner higher education or training institutions on each side from different provinces in Canada and preferably from different states in Mexico and the US. Partnerships may be formed from scratch or may build on existing international or domestic linkages. Projects must be new; they cannot be used to duplicate or extend existing activities. They should flow from the international strategy of each member institution of the consortium. All disciplinary fields are eligible, however, there is a strong interest in the professional fields such as business, engineering, law and medicine. Applications should be sent to Human Resources Development Canada, Jules Léger Building, c/o 10th Floor Mail Room, Ottawa, Ont. K1A 0M5, tel. (819) 994-2377. Deadline is July 31.

MEDICINE & LIFE SCIENCES CANCER RESEARCH INSTITUTE (US)

Clinical research seed grants are offered to support phase I or phase I/II clinical trials that test the novel use of monoclonal antibodies, vaccines or cytokines

for the treatment of melanoma and colon cancer. There are no citizenship restrictions and research may be conducted anywhere in the US or abroad. Deadline is September 1.

CONNAUGHT LABORATORIES LIMITED

Under the 1996 Canadian universities research fund program Connaught Laboratories is inviting qualified applicants to submit letters of intent for contract support of fundamental, leading-edge research on vaccines and related immunological topics. Details are available from UTRS. The internal deadline for receipt of letters of intent at UTRS is September 20.

HUMAN FRONTIER SCIENCE PROGRAM ORGANIZATION

Support is available to international research teams for projects in basic research for the elucidation of brain functions and basic research for the elucidation of biological functions through molecular level approaches. The principal investigator representing the team must be from one of the currently eligible countries and must be affiliated with a research institution located in one such country. For U of T applicants the following will apply to any funds to be administered by U of T: the 10 percent indirect cost component must be included in the budget calculation; the institutional investment policy must be included in the application package; and the usual University application procedures and signature requirements must be followed. Interested applicants should contact the organization directly for application forms and information on changes to deadlines, eligible countries and/or priority areas: International Human Frontier Science Program Organization, Tour Europe, 20 Place des Heures, 67000 Strasbourg, France (tel. 011-33-88-21-51-21 or fax 011-33-88-32-88-97). Deadline is September 1.

INTERNATIONAL CYSTIC FIBROSIS (MUCOVISCIDOSIS) ASSOCIATION

The association will support projects with potential for broad application, such as population screening, epidemiology or population genetics. International collaborative research is encouraged and may involve joint funding from national organizations. Funding is available under the following programs: scholarships for medical students or individuals working in the field of clinical CF care; professorships; for professors and other academic personnel to facilitate travel and sojourn in CF institutions; research project grants; for internationally relevant projects of a globally applicable nature (projects must be done in conjunction with a medical scientific institution in a "developing" country although guidance and expertise may be located in a research unit of "developed" countries); training courses for allied health professionals; for the translation of expertise in the process of improving care standards for CF. Deadline is September 1.

ELSA U. PARDEE FOUNDATION

The foundation supports research projects concerned with the care and control of cancer, particularly innovative, small-scale or short-term projects that may be difficult to fund elsewhere until some interesting results are obtained. The foundation requires an institutional letter of endorsement and evidence of the University's tax exemption status under US IRS guidelines. These letters may be obtained from UTRS at the time of submission for signature. Applications may be submitted any time.

PHYSICIANS' SERVICES INCORPORATED FOUNDATION

The foundation offers support towards the education of practising physicians and health research. Funding for education is

restricted and operated directly by the foundation. Priority areas of research are: clinical research, medical education and development at the post-MD level; health systems and community-based research. Applications will be considered only where a practicing physician is actively involved. There are specific restrictions relating to application eligibility, types of support and maximum amount. Investigators are advised to read the foundation's current Guide to Submission of Grant Applications which forms part of the revised application form (G1-02-95). Next deadline is September 5.

PHYSICAL SCIENCES & ENGINEERING NATIONAL SCIENCE FOUNDATION

The Inter-American Institute grants announced by National Science Foundation (NSF, USA) on behalf of the Inter-American Institute for Global Change Research are to help increase the number of organizations participating in and contributing to the research network; to facilitate preliminary studies and other activities related to the development of proposals by organizations that would otherwise be unable to participate in IAI due to limited budgets; to aid IAI in assessing the existing research programs and potential research topics in the IAI region. Topics: tropical ecosystems and biogeochemical cycles; impacts of climate change on biodiversity; El Niño — southern oscillation and interannual climate variability; ocean/atmosphere/land interaction in the intertropical Americas; oceanic, coastal and estuarine processes in temperate zones; temperate terrestrial ecosystems; high latitude processes. For information and guidelines contact: Philip Ennos, counsellor, Global Change Science Policy Branch, Env. Conservation Service, Jules Léger Building, c/o 10th Floor, 25 Edouard St., Hull, Quebec K1A 0H3. Ph. (819) 994-5434, fax (819) 953-0550. Deadline is August 15.

NATURAL SCIENCES & ENGINEERING RESEARCH COUNCIL

In 1994 NSERC revised its rules concerning eligibility to apply for and hold NSERC funding. Among the clauses governing eligibility was the following statement: "...not be paid out of NSERC (or other federal granting council) funds or hold federal granting council fellowships or scholarships." This new rule, which lists a list of cases refers to NSERC salary support programs, see p. 5 of the 1994 Researcher's Guide. This eligibility rule precluded those individuals whose salaries were paid out of other granting council funds from applying for and holding NSERC grants. At its June 1995 meeting NSERC reviewed this policy and agreed to remove this restriction. Thus, beginning with the upcoming (1996-97) research grants competition, individuals benefiting from MRC or SSHRC salary support programs will be eligible, provided they hold an eligible appointment at an eligible university and are carrying out research in an area which falls under NSERC's purview.

Further changes to NSERC's international activities: administrative changes following the restructuring of NSERC's programs, administrative responsibility for scholarships and fellowships as well as for the terminating international programs are transferred to the Research Grants & Scholarships Directorate; International policy and liaison activities are now under the Policy & International Relations Directorate. Bilateral exchange awards — awards under the bilateral exchange program are based on agreements between NSERC and counterpart agencies in seven countries. Each agreement is subject to budget and personnel limitations. Due to the popularity of the bilateral program for research travel to the UK and Germany, resources are becoming stretched. Potential applicants are thus advised to

contact the program administrator before preparing a request. Japan Science & Technology Fund — over the last three years NSERC has administered the academic component of this fund. As of April 1 this responsibility was returned to Foreign Affairs & International Trade Canada. North American research fellows scheme — NSERC will no longer offer this scheme, effective immediately and no new applications will be considered.

Following is a brief description of a new program, major facilities access grants, approved in early June. Objectives: major facilities access (MFA) grants support researchers' access to major regional or national research facilities. Description: MFA grants support researchers' access to facilities or research resources that are significant in size, value or importance and that are not routinely available in Canadian universities. The facilities are used by researchers from a number of institutions including universities, government laboratories and companies in foreign or across the country. These resources cannot be entirely supported from sources such as user fees and research grants. They may include large special items of research equipment, specialized experimental facilities or a core of highly skilled technical or professional research support staff essential to the research activities of a group. MFA grants are not intended to maintain facilities that are standard in a discipline and present in many university departments. MFA grants provide funding for costs such as the salaries of technical and professional research support staff employed to provide support to users or to maintain and operate the facility and for other direct costs such as materials, supplies and small equipment essential to the maintenance and operation of the facility. These grants may not be used to support graduate students or post-doctoral fellows or to pay any of the indirect costs of research. The costs of maintaining and operating a resource should be split into two major components: maintenance costs and recoverable costs. Only maintenance costs are eligible for NSERC MFA support. Maintenance costs are costs necessary to keep the resource in a state of readiness and are independent of the number of researchers actually using the resource. This would be the baseline cost of keeping the operation viable and would include salaries and expenses of staff essential for the functioning of the resource but not associated with specific research projects. Recoverable costs comprise expenses directly incurred when researchers use the facility. These costs are charged as user fees against research grants or other funding sources and must not be included in the amount requested from NSERC. Competitions will be held every three years starting in 1996. The deadline for applications for the first competition is October 1.

DEPARTMENT OF FISHERIES & OCEANS

After 14 years of successful operations, the science subvention program will be terminated. Accordingly, no further competitions will be held. DFO will fund the completion of the second year of new projects initiated in 1995-96.

UPCOMING DEADLINES

JULY 31

Foreign Affairs/Human Resources Development Canada/AUCC — program for North American mobility in higher education

Health Canada (NHRDP) — post-doctoral fellowships, national health research scholarships, national health scientists, visiting scientists

SSHRC — integration of persons with disabilities

Employ Development for Research — research grants

Hereditary Disease Foundation — research grants

Leukemia Society of America — short-term scientific exchange

National Multiple Sclerosis Society (US) — research grants

Thyroid Foundation of Canada — research grants

Whitaker Foundation — research grants (letter of intent)

AUGUST 11

American Association Inc. (US) — Zenith awards

AUGUST 15

NSERC — advance material (notification of intent)

Pediatric AIDS Foundation — Elizabeth Glaser scientist award (letter of intent)

Procter & Gamble Company — international program for animal alternatives

Damon Runyon-Walter Winchell Cancer Research Fund — fellowships

SEPTEMBER 1

American Society of Hematology — post-doctoral fellowships

AUGUST 25

Foreign Affairs & International Trade Canada — visiting foreign artists program

American Society of Hematology — scholar award

Cancer Research Institute (US) — clinical research seed grants (phase I/II trials)

Human Frontier Science Program — research grants, long-term fellowships

International Cystic Fibrosis (Mucoviscidosis) Association — research grants, scholarships, professorships, training courses

London Life — award in medical research (nominations)

MRC — clinical trials, workshops and symposia, university-industry clinical trials

National Institutes of Health — AIDS research grants (new)

SEPTEMBER 5

Physicians' Services Incorporated — research grants

The Bulletin

invites readers to submit information regarding awards and honours as well as death notices of staff and faculty. Please include as much background information as possible. Please send, deliver, fax or e-mail the information to: Joan Griffin, 21 King's College Circle; fax, 978-3958; e-mail, joang@durutoronto.ca

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PHD ORALS

Graduate faculty please call the PhD examinations office at 978-5258 for information regarding time and location for these listings.

MONDAY, JULY 24

Karen Lynn Backway, Department of Cellular & Molecular Pathology, "Studies on the Mechanisms for the Resistance of Hepatocyte Nodules to the Mitoinhibitory Effects of Orotic Acid." Prof. D. Sarma.

Marisela Guzman Gomez, Department of Mathematics, "Regularity Properties of the Davey-Stewartson System for Gravity-Capillary Waves." Prof. C. Sulem.

Christopher Andrew Jones, Centre for Medieval Studies, "Aelfric's Letter to the Monks of Eynsham: A Study of the Text and Its Sources." Profs. R. Frank and D. Townsend.

Steven Neil Urchuk, Department of Medical Biophysics, "Measurement of Intravascular Blood Pressure with Magnetic Resonance Imaging." Prof. D. Plewes.

TUESDAY, JULY 25

Rose E. De Souza, Department of Biochemistry, "Nucleotide-Evoked Cellular Responses in Pheochromocytoma (PC12) Cells." Prof. J. Reed.

THURSDAY, JULY 27
Don William Chapman, Centre for Medieval Studies, "Stylistic Use, of Nominal Compounds in Wulfstan's Sermons." Prof. R. Frank.

Rafael Felipe Monroy-Perez, Department of Mathematics, "Non-Euclidean Dubins' Problem: A Control Theoretic Approach." Prof. V. Jurdjevic.

June Pauline Rogers, Department of Education, "Teaching Poor Readers in Grade One." Prof. B. Kilbourn.

FRIDAY, JULY 28
Marven Helmut Krug, Department of History, "Civil

Liberties in Imperial Germany." Prof. J. Retallack.

MONDAY, JULY 31

Jennifer Noemi Wise, Graduate Centre for Study of Drama, "Prolegomenon to the Study of Dramatic and Theatrical Theory." Prof. D. de Kerckhove.

THURSDAY, AUGUST 3

Robert James Sargeant, Department of Biochemistry, "Insulin-Stimulation of Glucose Transport and Na⁺/K⁺-Pump Activity in Adipose and Muscle Cells in Culture." Prof. A. Klip.

Jos Stam, Department of Computer Science, "Multi-Scale Stochastic Modelling of Complex Natural Phenomena." Prof. E. Fiane.

FRIDAY, AUGUST 4

Xun-Gao Jiang, Department of Medical Biophysics, "Optimization of a Prism-Mirror-Prism Imaging Energy Filter for High Resolution

Microanalysis in Electron Microscopy." Prof. F. Ottensmeyer.

Weijing Yuan, Faculty of Information Studies, "Longitudinal Study of End-User Searching Behaviour in Information Retrieval." Prof. C. Meadow.

TUESDAY, AUGUST 8

Peter Vainkus, Department of Electrical & Computer Engineering, "A New Time-Domain Narrowband Velocity Estimation Technique for Doppler Ultrasound Flow Imaging." Profs. R. Cobbold and K. Johnston.

THURSDAY, AUGUST 10

Kathleen Laura Hefferon, Department of Microbiology, "Construction and Expression of Genes Encoding Potato Virus Y and Potato Virus X in Transgenic Potato Plants." Prof. M. AbouHaidar.

Where to find THE BULLETIN RACKS AND BOXES

Bloor & St. George
southeast corner

Gerald Larkin Building
16 Devonshire Place, lobby

Claude T. Bissell Building
140 St. George St., outside

Robarts Library
north entrance

Wycliffe College
Hoskin Ave. at Tower Rd.

Whitney Hall
85 St. George St.,
in sheltered entrance

Sir Daniel Wilson Residence
73 St. George St.,
box by porter's door

Sir Daniel Wilson Residence
southwest corner

21 King's College Circle
inside front door

University College
lobby

Simcoe Hall
rack inside door

Medical Sciences Building
main entrance

Medical Sciences Building
east side by dean's office

Sigmund Samuel Library
lobby

Hart House
Arbor Room entrance

Sidney Smith Hall
inside east and west doors

Sidney Smith Cafeteria
east door

Innis College
Sussex Ave., at Innis College Cafe

New College
21 Classic Ave., Wetmore Hall

New College
40 Wilcocks St.

New College
northeast corner,
Huron and Wilcocks

Botany
25 Wilcocks St.,
corridor on east side

Forestry
33 Wilcocks St., east entrance

45 Wilcocks St.
front of building

Lash Miller Chemical Laboratories
Wilcocks St. and St. George St.
entrances

McLennan Physical Laboratories
main foyer

Knox College
59 St. George St., southwest corner

45-49 St. George St.
box between buildings

Galbraith Building
lobby on St. George St.

International Students Centre
inside door

Koffler Student Services Centre
St. George St. and College St.
entrances

215 Huron St.
inside front door

Sandford Fleming Building
in open area

College St. & King's College Rd.
northeast corner

FitzGerald Building
Taddle Creek Road, east side

Best Institute
112 College St., on wall

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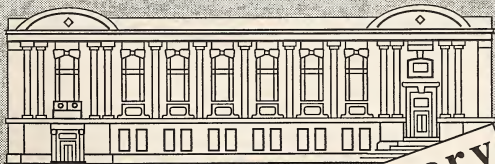
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OVER AND OUT

Some things never change — year after year students experience convocation in a blur

BY ALFRED HOLDEN

BOATERS ARE OUT, BALL CAPS ARE IN AND ROLLER BLADES ARE TAKING OVER from bicycles. But some things don't change — like the outfit they make you wear. It's just a couple yards of black cloth and if you're not careful you can trip over it. That tassel keeps getting in your eyes — which way is it supposed to hang? — and, gee, it's hot under this black square, isn't it?

Welcome to convocation, past, present and future. This is your day they say, but will they give you a job? You've got debts up to your ears, but hey, look at these pictures — those people managed, didn't they? And oh, we live in hard times, don't we, they're raising tuition fees. Phew, you're out.

Now for the walk — you wonder how they get this lawn so green; you just waded across it in March with that professor; it was all mud but you were both determined, straight lines being the shortest distance and all; and yeah, that was when you dropped your grandmother's copy of *Gray's Anatomy* in a puddle.

And didn't they say to hold the flash? There's Mom with the Kodak/the Brownie/the Instamatic/the point-and-shooter, oops! there she goes, how embarrassing. They're giddy aren't they, Dad just sat on her hat, and what's that, a dog barking? Someone on the balcony brought a St. Bernard? Or is he graduating?

They're filing down — they were so scruffy, now they look so regal — you're next, it just takes seconds — you're thirsty for a pop — *your name!* And then it's over, and really, it seems, life begins.



June 1995

PHOTO: ROB ALLEN



1920s



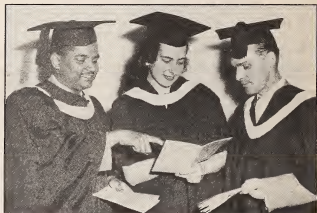
Ca. 1960



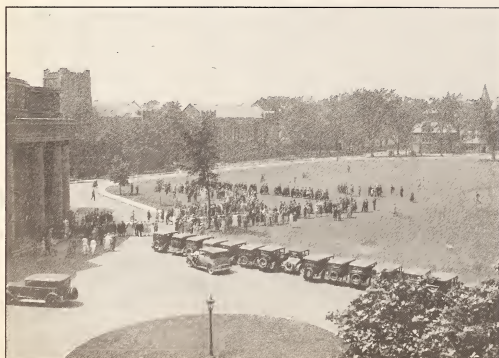
Ca. 1953



Ca. 1940



1957



Ca. 1929



Ca. 1960